

FIGURE 4

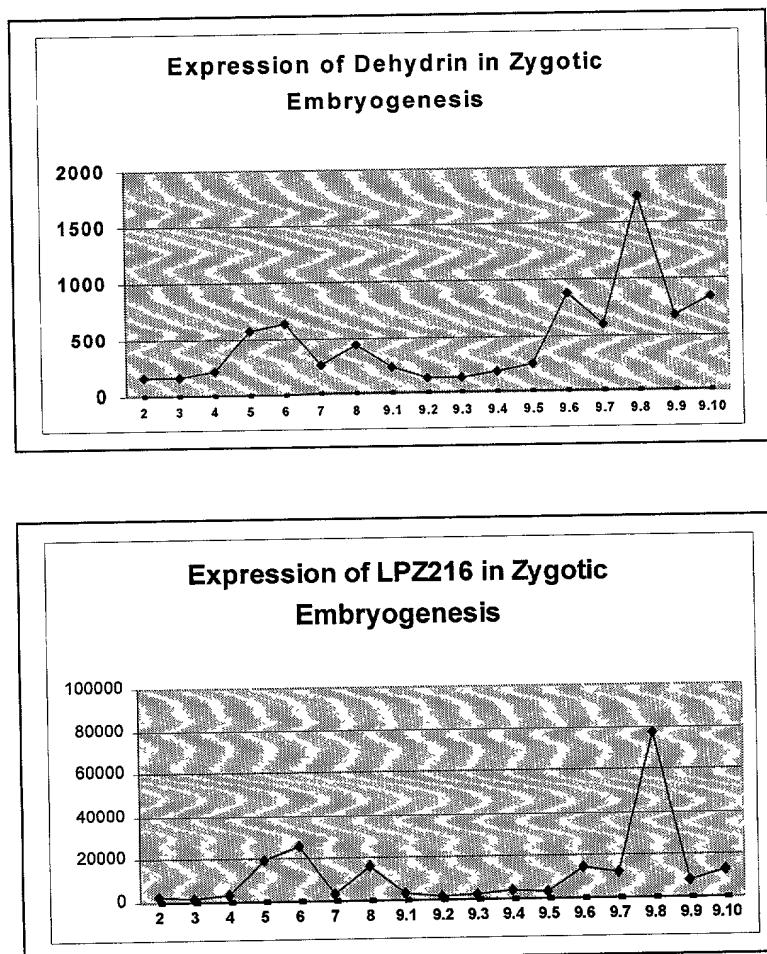


Figure 4. Graphical representation of hybridization of 'dehydrin' and LPZ-216 cDNA probes to total RNA isolated from zygotic embryos of loblolly pine. Five micrograms of RNA was loaded on a slot blot and hybridized with one of the cDNA probes. The hybridization signals were measured by a Fuji BAS-1000 Imaging system and signals were quantified using the associated software. The membrane was then stripped of probe and re-probed with labeled 26S rDNA to determine the equivalence of loading. These signals from this hybridization were captured and used to normalize the signals from dehydrin and LPZ-216.

FIGURE 5

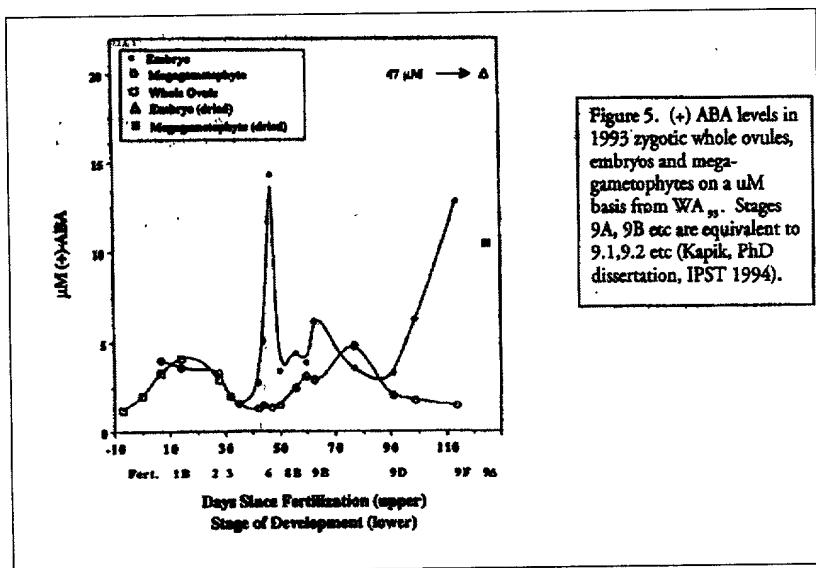


Figure 5. (+) ABA levels in 1993 zygotic whole ovules, embryos and megagametophytes on a μM basis from WA₃₃. Stages 9A, 9B etc are equivalent to 9.1, 9.2 etc (Kapik, PhD dissertation, IPST 1994).

Figure 5. Determination of ABA concentration of loblolly pine embryos as described more fully by Kapik et al., *Tree Physiology* 15:485-490 (1995)

FIGURE 6

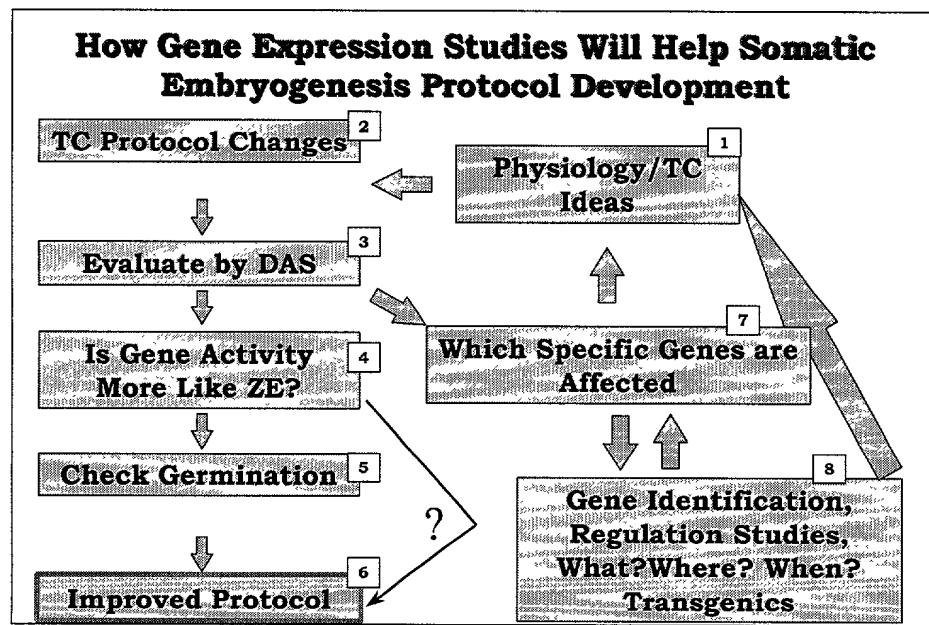


Figure 6. Scheme showing use of gene studies to improve somatic embryogenesis. TC = Tissue Culture, DAS = DNA Array Southern (an expression monitoring technique), ZE = Zygotic (Natural) Embryo